

GenCore version 5.1.4_p5.4578
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OM nucleic - nucleic search, using sw model

Run on: March 30, 2003, 00:35:07 ; Search time 235.597 Seconds
(without alignments)
12904.233 Million cell updates/sec

Title: US-09-768-781-1

Perfect score: 1350

Sequence: 1 atggacagagtttatgaat.....caaggcaagtggtgtctga 1350

Scoring table: IDENTITY NUC

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Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	525.2	38.9	532	ABL89709	Human polynucleotide
2	513.8	38.1	531	ABK41708	cDNA encoding nove
3	289.6	21.5	5096	ABL64686	Stomach cancer rel
4	282.8	20.9	5215	ABN59695	Novel human coding
5	270.6	20.0	668	ABA46582	Human breast cell
6	270.6	20.0	668	ABA64445	Human foetal liver
7	270.6	20.0	668	ABR31582	Probe #10048 for g
8	270.6	20.0	668	AAK12903	Human brain expres
9	270.6	20.0	668	AAK38630	Human bone marrow

10	270.6	20.0	668	22	AAI19430	Probe #9363 for ge
11	270.6	20.0	668	22	AAI44621	Probe #13307 used
12	270.6	20.0	668	22	AAI05155	Probe #5146 used t
13	270.6	20.0	668	24	ABSI2699	Human genome-deriv
14	176.8	13.1	471	22	ABAS1767	Human foetal liver
15	176.8	13.1	471	22	ABAS21596	Probe #62 for gene
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17	176.8	13.1	471	22	AAK25512	Human bone marrow
18	176.8	13.1	471	22	AAI10135	Probe #68 for gene
19	176.8	13.1	471	22	AAI11384	Probe #70 used to
20	176.8	13.1	471	22	AAI00076	Probe #67 used to
21	176.8	13.1	471	22	ABS000080	Human genome-deriv
22	171.4	12.7	1588	19	AAV69647	XX related Y (XKRY
23	160.4	11.9	384	22	ABA36103	Probe #14569 for g
24	160.4	11.9	384	22	AAK17479	Human brain expres
25	160.2	11.9	626	22	AAFS3700	cDNA encoding SRT
26	140.4	10.4	498	22	ABA26217	Probe #4683 for ge
27	140.4	10.4	498	22	AAK04747	Human brain expres
28	73.2	5.4	294	22	ABA48894	Human breast cell
29	73.2	5.4	294	22	ABA66814	Human foetal liver
30	73.2	5.4	294	22	ABA33877	Probe #12343 for g
31	73.2	5.4	294	22	AAK15243	Human brain expres
32	73.2	5.4	294	22	AAK40967	Human bone marrow
33	73.2	5.4	294	22	AAI21737	Probe #11670 for g
34	73.2	5.4	294	22	AAI47022	Probe #15708 used
35	73.2	5.4	294	22	AAI07422	Probe #7413 used t
36	73.2	5.4	294	24	ABSI4934	Human genome-deriv
37	65	4.8	477	22	ABA43790	Human breast cell
38	65	4.8	477	22	ABA54250	Human foetal liver
39	65	4.8	477	22	ABA24001	Probe #2467 for ge
40	65	4.8	477	22	AAK02527	Human brain expres
41	65	4.8	477	22	AAK27964	Human bone marrow
42	65	4.8	477	22	AAI12547	Probe #2480 for ge
43	65	4.8	477	22	AAI33897	Probe #3583 used t
44	65	4.8	477	22	AAI02452	Probe #2443 used t
45	65	4.8	477	24	ABS02431	Human genome-deriv

ALIGNMENTS

RESULT 1

ABL89709
ID ABL89709 standard; cDNA; 532 BP.

AC ABL89709;

XX 24-MAY-2002 (first entry)

DT Human polynucleotide SEQ ID NO 271.

XX Cytostatic; immunosuppressive; nontropic; neuroprotective; antiviral;
XX antiallergic; hepatotropic; antidiabetic; antinflammatory; antiulcer;
XX vulnery; anticonvulsant; antibacterial; antifungal; antiparasitic;
XX cardiant; gene therapy; cancer; immune disorder; cardiovascular disorder;
XX neurological disease; infection; human; secreted protein; gene; ss.

OS Homo sapiens.

XX WO200190304-A2.

PD 29-NOV-2001.

PP 18-MAY-2001; 2001WO-US16450.

PR 19-MAY-2000; 2000US-205515P.

PA (HUMA-) HUMAN GENOME SCI INC.

PI Birse CE, Rosen CA;

XX WPI; 2002-122018/16.

DR P-PSDB; ABB89300.

XX Novel 1405 isolated polypeptides, useful for diagnosis; treatment and
PT prevention of neural, immune system, muscular, reproductive,
PT gastrointestinal, pulmonary, cardiovascular, renal and proliferative
PT disorders -
XX
PS Claim 4; SEQ ID NO 271; 2081pp + Sequence Listing; English.
XX
CC The invention relates to novel genes (ABL89449-ABL90853) and proteins
CC (ABB89040-ABB90444) useful for preventing, treating or ameliorating
CC medical conditions e.g. by protein or gene therapy. The genes are
CC isolated from a range of human tissues disclosed in the specification.
CC The nucleic acids, proteins, antibodies and (ant)agonists are useful
CC in the diagnosis, treatment and prevention of: (a) cancer, e.g. breast
CC and ovarian cancer and other cancers of the adrenal gland, bone, bone
CC marrow, breast, gastrointestinal tract, liver, lung, or urogenital;
CC (b) immune disorders e.g. Addison's disease, allergies, autoimmune
CC haemolytic anaemia, autoimmune thyroiditis, diabetes mellitus, Crohn's
CC disease, multiple sclerosis, rheumatoid arthritis and ulcerative
CC colitis; (c) cardiovascular disorders such as myocardial ischaemias;
CC (d) wound healing; (e) neurological diseases e.g. cerebral anoxia and
CC epilepsy; and (f) infectious diseases such as viral, bacterial, fungal
CC and parasitic infections.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 532 BP; 109 A; 129 C; 121 G; 168 T; 5 other;

Query Match 38.9%; Score 525.2; DB 24; Length 532;
Best Local Similarity 98.7%; Pred. No. 5.5e-151;
Matches 524; Conservative 4; Mismatches 3; Indels 0; Gaps 0;
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QY 987 TTTGCAAGTTGAGGTTGGCAGACAGAGATCTCTGTCGACAAAGGCGAGAACTGGGGACATAT 1046
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QY 1227 CTCACCTTCCACCAATATAGTAGTACCTACCTCCATTTGTTGTCTGTGCA 1277
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RESULT 2
ABK41708
ID ABK41708 standard; cDNA; 531 BP.

XX AC ABK41708;
XX
DT 21-MAY-2002 (first entry)
XX
DE cDNA encoding novel human connective tissue related polypeptide #96.
XX
KW Human; connective tissue related disorder; cancer; gene therapy;
XX cytotactic; gene; ss.
XX Homo sapiens.
XX
PN WO200155343-A1.
XX
PD 02-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US01322.
XX
31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
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PR 11-DEC-2000; 2000US-0254097.
PR 05-JAN-2001; 2001US-0259678.
XX (HUMA-) HUMAN GENOME SCI INC.
XX Rosen CA, Barash SC, Ruben SM;
PI WPI; 2001-565190/63.
XX P-PSDB; AAU86530.
DR Nucleic acid encoding novel connective tissue associated polypeptides,
PT used in diagnosing, preventing, treating or ameliorating a disorder
PT such as cancer or rheumatoid arthritis -
XX Claim 4; SEQ ID No 106; 673pp; English.
XX The present invention relates to the isolation of novel human connective
CC tissue related polypeptides (AAU86435-AAU86923) and the polynucleotide
CC (cDNA and genomic) sequences encoding them. The sequences of the
CC invention are useful in the diagnosis, treatment, prevention and/or
CC prognosis of diseases associated with connective tissue(s), including
CC cancer. The polynucleotide sequences of the invention are also useful
CC in gene therapy. ABR41613-ABK42101 represent cDNA sequences encoding
CC the novel human connective tissue related polypeptides.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX SQ Sequence 531 BP; 109 A; 128 C; 121 G; 168 T; 5 other;
Query Match 38.1%; Score 513.8; DB 23; Length 531;
Best Local Similarity 98.5%; Pred. No. 1.8e-147;
Matches 523; Conservative 5; Mismatches 2; Indels 1; Gaps 1;
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DB 2 GGAGATCACTCCCGCTCTGATTCGTGCTCTTCTCAGGCACCTTTGAAATGAAGGC 61
QY 807 TGTGCCCTTCCTAGTGTCAACTTCTGATCATCTCTTTGAGCCCTGATTAAGTTCTG 866
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QY 927 GGTGTCCTGATTTCACTCACCATCTCTATGCTGGCATCAACTTCTTGTGTCAGC 986
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DB 241 TTTGCAAGTTGAGTTGGCAGACAGAGATCTCTGTCAGCAAGGCGCAACTGGGACATAT 300
QY 1047 GGGCCTGCATATAGTGTGAGGTTGGTAGAATGTGATCATGCTTGTGTTTAAAGTT 1106
DB 301 GGGCCTGCATATAGTGTGAGGTTGGTAGAATGTGATCATGCTTGTGTTTAAAGTT 360
QY 1107 CTTTGGAGTGAAGTTTACTGAAATTAATGCTCACTTGTGATTCCTTGCAGCTCAATTAT 1166
DB 361 CTTTGGAGTGAAGTGTACTGAAATTAATGCTCACTTGTGATTCCTTGCAGCTCAATTAT 420
QY 1167 TCGTTATCTGATTTCCATGACTTCACTGCTCTTTTCTCCAGTACTTCATCCATTGGG 1226
DB 421 TCGTTATCTGATTTCCATGACTTCACTGCTCTTTTCTCCAGTACTTCATCCATTGGG 480
QY 1227 CTCACCTCTTCAACCATAATGTAGTAGACTACCTCCATTGTGTCTGTCTCA 1277

Db 481 CTCACCTCTCACCAATAATGCTAGTACTACCTCCATTGCTGCTGTCA 531

RESULT 3

ABL64686
ID ABL64686 standard; DNA; 5096 BP.
XX
AC ABL64686;
XX
DT 15-MAY-2002 (first entry)
XX
DE Stomach cancer related gene sequence SEQ ID NO:3023.
XX
KW Human; cancer; colon; breast; ovary; oesophagus; kidney; thyroid;
KW stomach; lung; prostate; pancreas; carcinoma; antitumour; cancerous;
KW cytostatic; gene therapy; antineoplastic; Wilms' tumour; adenocarcinoma;
KW gene; ds.
XX
OS Homo sapiens.
XX
PN WO200194629-A2.
XX
PD 13-DEC-2001.
XX
PF 30-MAY-2001; 2001WO-US10838.
XX
PR 05-JUN-2000; 2000US-209473P.
PR 05-JUN-2000; 2000US-209531P.
PR 18-SEP-2000; 2000US-233133P.
PR 18-SEP-2000; 2000US-233617P.
PR 20-SEP-2000; 2000US-234009P.
PR 20-SEP-2000; 2000US-234034P.
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PR 25-SEP-2000; 2000US-234924P.
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PR 01-NOV-2000; 2000US-244867P.
PR 01-NOV-2000; 2000US-245084P.
XX
PA (AVAL-) AVALON PHARM.
XX
PI Young PE, Augustus M, Carter KC, Ebner R, Endress G, Horrigan S;

PI Soppet DR, Weaver Z;
XX WPI; 2002-188264/24.
XX
PT Screening for anti-neoplastic agent involves exposing cells to a
PT chemical agent to be tested for anti-neoplastic activity, and
PT determining a change in expression of a gene of a signature gene set -
XX
PS Claim 1; SEQ ID 3023; 44pp; English.
XX
CC The present invention describes a method (M1) for screening for an
CC anti-neoplastic agent. The method involves exposing cells to a chemical
CC agent to be tested for anti-neoplastic activity, determining a change in
CC expression of at least one gene (1) of a signature gene set, where (1)
CC comprises a sequence (S) selected from 8447 sequences (given in ABL61664
CC to ABL70110), or is at least 95% identical to (S), where a change in
CC expression is indicative of anti-neoplastic activity. (1) has cytostatic
CC activity and can be used in gene therapy. M1 can be used for screening
CC an anti-neoplastic agent, and can be used for producing a product which
CC is the data collected with respect to the anti-neoplastic agent as a
CC result of M1, and the data is sufficient to convey the chemical
CC structure and/or properties of the agent. M1 can be used in the
CC treatment of cancer such as colon, breast, stomach, lung, thyroid,
CC oesophageal, ovarian, kidney, prostate or pancreatic cancer,
CC adenocarcinoma, carcinoma, clear cell cancer, infiltrating ductal cancer,
CC infiltrating lobular cancer, squamous cell carcinoma, neuroendocrine
CC carcinoma, papillary carcinoma and Wilms' tumour.
XX
SQ Sequence 5096 BP; 1392 A; 1064 C; 1022 G; 1618 T; 0 other;

Query Match 21.5%; Score 289.6; DB 24; Length 5096;
Best Local Similarity 54.6%; Pred. No. 7.3e-78;
Matches 627; Conservative 0; Mismatches 509; Indels 12; Gaps 2;

QY 118 TCACCTTTTGTACTGTGGGAGGCTGCTCTGTTGTACATGTTAGATCTATCGA 177
Db 110 TCCGTGTTCTCTGTTGCGGCCGAGACAAACGCGCGCTCAGCCTGAGCAGCACCTACCGC 169
QY 178 AAGNATAGTGAACCTTACCGATGACATACACCTTTTCTTCTTTATGTTTTCATTCATT 237
Db 170 TCGGGGGGGGACCGCATGTGGCAGCGCTGACCTTTCTTCTGCTACTGCTTGGCGG 229
QY 238 ATGCTCCAGTTGACCCCTCATTTTGTCCACAGAGATCTAGCCAAAGATAAACCGCTATCA 297
Db 230 CTGCTGAGCTCAGCTTCTTCTGTACACCGGACCTCAGCCGCGCCGCTCGTA 289
QY 298 TTATTTATGCACTAATCTCTTTGGGACCTGTTATCATAGATGTTTGGAGGCCNTGATTAAG 357
Db 290 CTGCTGCTGACCTGCTGCAACTTGGGCCCTTTTTCAGGTGTTTGAAGTCTTCTGCATC 349
QY 358 TACCTCACACTGTGGAGAAGAGGAGGAGGAGGAGGCCCTATGTCAGCCTCACCAGGAAG 417
Db 350 TACTTTC-----AGTCAGGCAACAATGAAGAGCCTTATGTCAATATCACCAAGAAG 400
QY 418 AAG---ATGCTAATAGATGGGAGGAGTGTCTGATGAATGGGAGGTGGGCCACTCCATC 474
Db 401 AGCAATGCAAAATATGCTCTCAGAGAGATTTGAGAGAGGAGGTGGGCCAGGAGNA 460
QY 475 CGGACCTGGCTATGCAACCGCAATGCTTACAAACGTATGTACAGATCCAAAGCCTTCTTG 534
Db 461 GGCAAACTAATCAACCCACCGATCAGCGTTTTCAGCGCGCGTCCGTCAGGCTTCTTG 520
QY 535 GGCTCAGTGGCCGAGCTATCAGCTCTATGTGAGCCCTGATCTCTGCAGAGGTTCCC 594
Db 521 GGCTCAGCCCCCAGCTGACCCCTACAGCTGTACATAAGTGTCAAGAGGAGGAGTCACT 580
QY 595 CTGGGTAGAGTGTGCTAATGTTATTTTCCCTGATTTCTGTACCTATGGGCCACCCCTT 654
Db 581 GTTGGAGAAGTCTCTCATGACCATATCCCTGTTGTCATTTGTGATGAGCCCTTGGGC 640
QY 655 TGAATATGTTGGCTATCCAGATCAAGTACGATGATCAAGATTCGCCCTTGGGCCACTA 714
Db 641 TGCAACATCTAGCCATCAAAATCAAGTACGATGATGAAGTCAAAAGTGAAGGCTCTG 700

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Oy 715 GAAGTCTCTGATCACCATCTGGGAGACATTTGGAGATCACTTCCGGCTCCTGATTTCTG 774
Db 701 GCCTATGCTGTATCTCTGTTGGAGAGCTTTGAGATTGGCCACTCGAGTTGTAGTCTG 760
Oy 775 GTGCTCTCTCAGCCACTTTGAAATGAAGCTGTGCGCTTCTAGTGTCAACTTCTG 834
Db 761 GTCCCTCTTTACCTCCGCTCTGAAGACCTGGGCTGGTGTATATACTCATCAACTTCTC 820
Oy 835 ATCATCTCTTTGAGCCCTGGAATTAAGTTCTGGAGAAGTGGTGGCCAGATGCCCAATAC 894
Db 821 AGTTCTCTTTGATACCCCTGGATCTCTTCTGGTGCAGTGGTTCGCCATTCCTCGAAGC 880
Oy 895 ATGAGAAAACTTCAGCCGGTGGCACTCTGGTGGTCTCTGATTTCACTACCACTCTC 954
Db 881 ATAGAGAGGCCCTCAGTAGAGTGGGCACCACTGTTGTAATGCTTTCTTAACTTTACTC 940
Oy 955 TATGCTGGCATCAACTTCTCTGCTGGTGCAGCTTTCAGTTGAGTTGGCAGACAGAGAT 1014
Db 941 TATACTGGTATCAACATGTTCTGCTGGTCTGTACAGCTGAAAAATTGACAGCCCTGAC 1000
Oy 1015 CTCGTCGACAAAGGGCAGAACTGGGACATATGGGCTGCACATATAGTGTGAGTTGTA 1074
Db 1001 CTCATCAGCAAGTCCCATATTTGGTACCAGCTACTGCTGTATTTACATGATAAGATTCATC 1060
Oy 1075 GAGAAATGATCATGCTCTTGGTTTCTTAAAGTTCTTTGGAGTGAAGTGTACTGAATTAC 1134
Db 1061 GAGATGCCATCTCTCTCTCTCTGTTGATCTTTTCAAGACTGACATCTATATGATGTG 1120
Oy 1135 TGTCAATCTCTGATGCTTGGCTTGGAGCTCATATGCTTATCTGATTTCCATGACTTCATG 1194
Db 1121 TCGCAGCTCTGTTGCTCTGCTGAGCTGCTCATTTGGGTACTGACAGCCATTTCTTCTCATG 1180
Oy 1195 CTCCTTTCTTCCAGTACTGTCATCATTTGGCTGCTCTCTTCAACCATATGATAGTAC 1254
Db 1181 CTGTATTTCTATCAGTTCTTCCACCTTGCACCCCTGCAAAAAGCTCTTTTCTTCCAGTGT 1240
Oy 1255 TACCTCCA 1262
Db 1241 GCCTTTCA 1248

RESULT 4
ABN59695
ID ABN59695 standard; cDNA; 5215 BP.
XX
AC ABN59695;
XX
DT 28-JUN-2002 (first entry)
XX
DE Novel human coding sequence SEQ ID NO: 106.
XX
KW Human; antianemic; vulnerary; antiinflammatory; immunomodulator;
KW antifertility; cerebroprotective; cytostatic; rheumatic; gene therapy;
KW neuroprotective; antiparkinsonian; protein therapy; EST;
XX expressed sequence tag; gene; ss.
XX
OS Homo sapiens.
XX
PN WO200222660-A2.
XX
PD 21-MAR-2002.
XX
PF 10-SEP-2001; 2001WO-US26015.
XX
PR 11-SEP-2000; 2000US-0659671.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Zhou P, Asundi V, Zhang J, Zhao QA, Ren F;
PI Xue AJ, Yang Y, Wehrman T, Drmanac RT;
XX WPI; 2002-292408/33.

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P-PSDB; ABB97282.

An isolated polynucleotide for treating diseases associated with its encoded polypeptide such as cancer and multiple sclerosis -

Claim 1; SEQ ID NO 106; 509pp; English.

The present invention provides the protein and coding sequences of 444 novel human proteins. These were isolated from expressed sequences tags (ESTs). They can be used to stimulate cell growth, to regulate haematopoiesis e.g. to treat aplastic anaemia, to help tissue regrowth e.g. in burn treatment, to regulate the immune system e.g. to treat multiple sclerosis, to regulate the activin or inhibin e.g. to treat infertility, to regulate haemostasis or thrombolysis e.g. to treat stroke and cancer, to screen for drugs, to treat inflammatory conditions e.g. rheumatoid arthritis, and to treat nervous system disorders e.g. Parkinson's disease. The present sequence is a coding sequence of the invention.

Sequence 5215 BP; 1458 A; 1058 C; 1035 G; 1664 T; 0 other;

Query Match 20.9%; Score 282.8; DB 24; Length 5215;

Best Local Similarity 55.7%; Pred. No. 9.1e-76;

Matches 589; Conservative 0; Mismatches 457; Indels 12; Gaps 2;

Oy 208 ACCTTTCTCTTTTATGTTTTCATCCATTATGTCAGTTCAGCTCATCTTTGTCAC 267

Db 319 ACGTGTCTTTTCTCGTACTGCTTGGCGCTCGTGCAGCTCAGCTTCTCTCGTAC 378

Oy 268 AGAGATCTAGCAGCAAGATAAACCGCTATCATTTATGTCATCTAATCTCTTTGGACCT 327

Db 379 CGGACCTCAGCGCGACCGCCGCTCGTACTGCTGCTGCACCTGCTGCACTTGGGCC 438

Oy 328 GTTATCAGATGTTGGAGGCCATGATTAAGTACCTCACACTGTGGAAGAAAGAGAGCAG 387

Db 439 CTTTTCAGGTGTTTGAAGTCTTCTGCATCTACTTTC-----AGTCAGGCAACAAT 489

Oy 388 GAGGAGCCCTATGTCAGCTCACCAGCAAGAGAG---ATGCTAATAGTGGCGAGGAGTG 444

Db 490 GAAGAGCTTATGTCAGTATCACCAGAGAGGCAAAATGCCAAAATGGCTCTCAGAG 549

Oy 445 CTGATAGAATGGAGGTGGGCCACTTCCATCCGACCCCTGGCTATGCCACCGCAATGCTAC 504

Db 550 GAGATTGAGAGGAGTGGGCCAGGAGCAAACTAATCACCACCGATCAGCGTTTC 609

Oy 505 AAAAGTATGTACAGATCCAGAGCTTCTTGGCTCAGTGGCCCCAGTACCTATCAGCTC 564

Db 610 AGCCGGCGCTCGGTGATCCAGCTTTCTTGGCTCAGCCCCCAGTACCTACAGCTG 669

Oy 565 TATGTAGCCTGATCTCTGACAGAGTTCCTCGGTGAGAGTTGCTATGTTATTTTCC 624

Db 670 TACATAAGTGTATGACAGGAGCGTCACTGTTGAAGAAGTCTCTCATGACCATATCC 729

Oy 625 CTGGTATCTGTACCTATGGGGCCACCTTTTGCAATATGTTGGCTATCCAGATCAAGTAC 684

Db 730 CTGTTGTCCATTGTGTATGGAGCTTGGCTGCAACATCTAGCCATCAAAATCAAGTAC 789

Oy 685 GATGACTACAGATTCGGCTTGGGCCACTAGAGTCTCTGTGATCACCATCTGGCGGACA 744

Db 790 GATGAGTATGAAGTCAAAAGTGAAGCTCTTGGCTATGCTGTATCTCTGTGGAGGAGC 849

Oy 745 TTGGAGATCACTTCCCGCTCTGATTTCTGGTGTCTTCTCAGCCACTTTTGAATTTGAG 804

Db 850 TTTGAGATGTCACCTCGAGTGTAGTCTTGGTCTTTTACCTCGTCTCAGAGACCTGG 909

Oy 805 GCTGTGCCCTTCTAGTGTCTCAACTTCTCTGATCATCTCTTTGAGCCCTGGATTAGTTC 864

Db 910 GTGGTGGTTATAATACTCATCAACTTCTTCAAGTTTCTTCTTGTACCCCTGGATCTCTTC 969

Oy 865 TGGAGAAGTGTGCCCCAGATGCCCAATTAACATTGAGAAAAAATTCAGCGGGTGGCACT 924

Db 970 TGGTGCAGTGGTTCCCATTTCCCTGAGAACATAGAGAGGCCCTCAGTAGAGTGGGCACC 1029

QY 925 CTGGTGGTCTGATTTTCAGTCACCATCTCTATGCTGGGCAATCACTTCTCTGCTGGTCA 984
Db 1030 ACCATTGTACTATGCTTTCTTAACCTTTACTCTATGCTGGTATCAACATGTTCTGCTGGTCT 1089
QY 985 GCTTTGTCAGTTGAGTTGGCAGACAGATCTCGTCGACAAAGGGCAGAACTGGGGACAT 1044
Db 1090 GCTGTACACTGAATTTGACGCCCTGACCTCATCAGCAAGTCCCATTAATTTGGTACCAG 1149
QY 1045 ATGGGCTGCACTATATGTTGAGTTGGTAGAAGTGTGATCATGCTCTTGGTTTTTAAG 1104
Db 1150 CTACTGGTGTATTACATGATTAAGATTATCATGAGAATGCCATCTCTCTCTGCTGTAT 1209
QY 1105 TTCTTTGGAGTGAAGTGTACTGAATTAATGATGCTATCTCTGATGCTGCTGGAGTCAAT 1164
Db 1210 CTTTTCAAGACTGACATCTATATGATGTGTGGCCACCTCTGTTGGTCTGCAAGTCTC 1269
QY 1165 ATTGCTTATCTGATTTCCATGACTTCATGCTCTCTTTCTTCCAGTACTGATCCATTG 1224
Db 1270 ATTGGGTACTGCAAGCCATCTCTTCAATGCTTGTATTTCTATCAGTCTTCTCCACCTTGC 1329
QY 1225 CGTCACTCTTCAACCCATTAATGTAGTACTACTTCCA 1262
Db 1330 AAAAAGCTCTTTCTTCCAGTGTCTGAGGGCTTTCA 1367

RESULT 5

ABA46582
ID ABA46582 standard; DNA; 668 BP.
XX
AC ABA46582;
XX
XX
DT 01-FEB-2002 (first entry)
XX
DE Human breast cell single exon nucleic acid probe #5277.
XX
XX Human; microarray; single exon probe; gene expression; breast;
KW disease; cancer; ss.
XX
OS Homo sapiens.
XX
PN WO200157271-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00662.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.

XX
XX Penn SG, Hanzel DK, Chen W, Rank DR;
XX
XX WPI; 2001-496933/54.

XX
XX New spatially-addressable set of single exon nucleic acid probes,
PT useful for measuring gene expression in sample derived from human
PT breast, comprises number of single exon nucleic acid probes -

XX
XX Claim 4; SEQ ID NO 5277; 327pp + sequence listing; English.

XX
XX The invention relates to a spatially-addressable set of single exon
CC nucleic acid probes for measuring gene expression in a sample derived
CC from human breast and Br 474 cells. The method involves contacting
CC the probes with a collection of detectably labelled nucleic acids
CC derived from mRNA of human breast, and then measuring the label
CC bound to each probe of the microarray. The probes are useful for
CC verifying the expression of regions of genomic DNA predicted to

CC encode proteins. They are useful for gene discovery, and for
CC determining predisposition and/or prognosing breast disease. Gene
CC expression analysis is useful for assessing the toxicity of chemical
CC agents on cells. The microarray of this invention presents a far greater
CC diversity of probes for measuring gene expression, with far less bias
CC than expressed sequence tag microarrays. The method is suitable for
CC rapid production of functional information from genomic sequence. The
CC present sequence is a single exon nucleic acid probe of the invention.
CC Note: The sequence data for this patent did not form part of the
CC printed specification, but was obtained in electronic format directly
CC from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX
SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

Query Match 20.0%; Score 270.6; DB 22; Length 668;
Best Local Similarity 65.1%; Pred. No. 1.5e-72;
Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;

QY 618 ATTTTCCCTGGTATCTGTCACTATGCTGGGCCACCTTTGCAATATATTTGGCTATCCAGAT 677
Db 2 ATTTTCCCTGTTATCAGTTTACTTATGGGGCCATTCGCTGCAATATATACTGGCCATCCAGAT 61
QY 678 CAAGTACGATGACTACAGATTGGCTTGGGCCACTAGAGTCCCTGTCATCACCATCTG 737
Db 62 CAGCAATGATGATPACTACCATTAAGCTACGGCCGATAGAAATTCCTCTGTGTGATGTG 121
QY 738 GGGACATTTGGAGATCACATTCGCCCTCTGATTTCTGGTGTCTTCTCAGCCACTTTGAA 797
Db 122 GGTGTTTTTGGAGTTATCTCAGGTAGTGTGACTCTGGCATTTTTCATTCGATCTCTGAA 181
QY 798 ATTGAAGGCTGTGCCCTTCTTAGTGTCTCAACTTCTGTGATCATCTCTTTGAGCCCTGGAT 857
Db 182 ACTGAAGAGCTACCGGTTTGTGTTAATCATATATTTTGTATCATTTGTCGACCGTGGCT 241
QY 858 TAAGTTCTCGAGAGTGGTGGCCAGATGCCAATACATTTGAGAAAACCTTCAGCCGGGT 917
Db 242 GGAGTTTGGAAAAGTGGAGCTCATCTCTGCGCAACAAAGAAAATAATTTCCAATATGGT 301
QY 918 CGGCACTGTGGTGTCTGATTTTCAGTCACTACCTCTCTATGCTGGCATCAACTTCTCTTG 977
Db 302 GGGTACAGTACTGATGCTTTTCTTGATCACACTGCTATATGCTGCCATCAACTTCTCTG 361
QY 978 CTGGTCAGCTTTTGCAGTTGAGTTGGCAGACAGAGATCTCGTCGACAAAGGGCAGAACTG 1037
Db 362 CTGGTCAGCAGTGAAACTGCAGTTGTAGATGACAAAATAATTTGACGGGAGACAGAGGTG 421
QY 1038 GGCACATATGGGCCCTGCATCTATGCTGAGTTGGTAGAGAAATCTCATGCTCTTGGT 1097
Db 422 GGGCCATAGAAATCCTACACTACAGCTTTTCAGTTTGTAGAAAATGTGATATATATGGT 481
QY 1098 TTTTAAAGTTCTTTGGAGTGAAGTGTACTGAATTACTGTCAATTCCTTGTATGCTCTGCA 1157
Db 482 ATTTAGTTCTTTGGAGGGAAGAACTTTGCTGAATTTGTTGACTCATTAATTTGCCGTGCA 541
QY 1158 GCTCATATTGCTTATCTGATTTCCATTTGACATTCATGCTCTCTTTCTTCCAGTACTTGA 1217
Db 542 GCTCATATAAAGCTACTATTTGGCCACTGCTTTATGCTCTCTCTCTATCAGTATTGTA 601
QY 1218 TCCATTTGGCTCA 1230
Db 602 CCCATGGCAGTCA 614

RESULT 6

ABA64445
ID ABA64445 standard; DNA; 668 BP.

XX
AC ABA64445;

XX
DT 01-FEB-2002 (first entry)

XX
DE Human foetal liver single exon nucleic acid probe #12750.

XX

Human; foetal liver; gene expression; single exon nucleic acid probe; ss.

Homo sapiens.

WO200157277-A2.

09-AUG-2001.

30-JAN-2001; 2001WO-US00669.

04-FEB-2000; 2000US-0180312.

26-MAY-2000; 2000US-0207456.

30-JUN-2000; 2000US-0608408.

03-AUG-2000; 2000US-0632366.

21-SEP-2000; 2000US-0234687.

27-SEP-2000; 2000US-0236359.

04-OCT-2000; 2000GB-0024263.

(MOLE-) MOLECULAR DYNAMICS INC.

Penn SG, Hanzel DK, Chen W, Rank DR;

WPI; 2001-483447/52.

Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human fetal liver.

Claim 4; SEQ ID NO 12750; 639pp + sequence listing; English.

The invention relates to a single exon nucleic acid probe for measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human foetal liver. The present sequence is a single exon nucleic acid probe of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

Query Match 20.0%; Score 270.6; DB 22; Length 668;

Best Local Similarity 65.1%; Pred. No. 1.5e-72;

Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;

Qy 618 ATTTTCCCTGGTATCTGCACCTATGGGGCCACCTTTGCAATATGTTGGCTATCCAGAT 677

Db 2 ATTTTCCCTGGTATCTGCACCTATGGGGCCACCTTTGCAATATGTTGGCTATCCAGAT 61

Qy 678 CAAGTACGATGACTACAAAGATTGGCTTGGGCCACTAGAGTCTCTGCATCACCACCTCTG 737

Db 62 CAGCAATGATGATACCTACCTAAGTACCTACCGCGGATAGATTTCTGTGTGGTATGTTG 121

Qy 738 GCGGACATGGAGATCACTTCCCGCTCTGATGTTGGTGTCTTCTCAGCCACTTTGAA 797

Db 122 GCGTTTTTGGAGGTTATCTCAGGTGATGACTCTGGCAATTTTTCATTGTCATCTCTGAA 181

Qy 798 ATTGAAGCTGTGCTTCTAGTCTCACTTCTGATCATCTCTTGGCCCTGGAT 857

Db 182 ACTGAAGAGCTTACCCGTTTGTGTAATCATATATTTGATCATTTGTTGGCACCCTGGCT 241

Qy 858 TAAGTTCTGGAGAGTGGTGGCCAGATGCCAATAACATTCAGAAAAAATCTTCAGCCGGT 917

Db 242 GGAGTTTGGAAAAAGTGGAGCTCATCTTCTGGCAACAAGAAATATTCATATGGT 301

Qy 918 CGGCACTCTGGTGTCTGATTTTCAGTCACCATCTCTATGCTGGCATCAATCTCTTG 977

Db 302 GGGTACAGTACTGATGCTTTTCTGATCAGACTGATATGCTGCAATCAATCTCTCTG 361

Qy 978 CTGGTTCAGTTTGCAGTTGAGTTGGCAGACAGATCTCTGCAACAAGGCGACACTG 1037

Db 362 CTGGTTCAGTGAAGTGCAGTTGCTGATGACAAAAATAATTGACGGGACAGAGGTG 421

Qy 1038 GGGACATATGGCTGCTACATATAGTGTGAGGTTGGTAGAATGTGATCATGCTTGTGT 1097

Db 422 GGGCATATAGATCTTACACTACAGCTTTCAGTTTTTGAATAATGTGATATGTTGT 481

Qy 1098 TTTTAAGTTCTTTGGAGTGAAGTGTACTGAAATPACTGTCTATTCCTTGAATGCTTGA 1157

Db 482 ATTTAGGTTCTTTGGAGGGAAGAACTTTCCTGAATTTGTTGACTCATTAATTTGCCGTGCA 541

Qy 1158 GCTCATTTATGCTTATCTGATTTCATTTGATTTGATGCTCTCTTTTCTTCCAGTACTTGA 1217

Db 542 GCTCATCATTAAGCTACCTATTTGGCCACTGGCTTTATGCTCTTCTTATCATGATATTGTA 601

Qy 1218 TCCATTGGCTCA 1230

Db 602 CCCATGGCAGTCA 614

RESULT 7

ABA31582

ID ABA31582 standard; DNA; 668 BP.

AC ABA31582;

XX 23-JAN-2002 (first entry)

DE Probe #10048 for gene expression analysis in human heart cell sample.

XX Human; gene expression; heart; microarray; vascular system; probe;

XX Cardiovascular disease; hypertension; cardiac arrhythmia;

XX Congenital heart disease; ss.

XX Homo sapiens.

XX WO200157274-A2.

XX 09-AUG-2001.

XX 30-JAN-2001; 2001WO-US00666.

XX 04-FEB-2000; 2000US-0180312.

XX 26-MAY-2000; 2000US-0207456.

XX 30-JUN-2000; 2000US-0608408.

XX 03-AUG-2000; 2000US-0632366.

XX 21-SEP-2000; 2000US-0234687.

XX 27-SEP-2000; 2000US-0236359.

XX 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-488899/53.

XX Single exon nucleic acid probes for analyzing gene expression in human hearts.

XX Claim 4; SEQ ID No 10048; 530pp; English.

XX The present invention relates to single exon nucleic acid probes for measuring human gene expression in a sample derived from human heart. The present sequence is one such probe. The probes may be used for predicting, measuring and displaying gene expression in samples derived from the human heart via microarrays. By measuring gene expression, the probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of the human heart and vascular system e.g. cardiovascular disease, hypertension, cardiac arrhythmias and congenital heart disease.

XX Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;


```

Db 602 CCCATGGCAGTCA 614
RESULT 9
AAK38630
ID AAK38630 standard; DNA; 668 BP.
XX
AC AAK38630;
DT 06-NOV-2001 (first entry)
DE Human bone marrow expressed single exon probe SEQ ID NO: 13187.
XX
KW Human; bone marrow expressed exon; gene expression analysis; probe;
KW microarray; cancer; leukaemia; lymphoma; myeloma; ss.
XX
OS Homo sapiens.
XX
PN WO200157276-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00668.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
WPI; 2001-488900/53.
XX
Human genome-derived single exon nucleic acid probes useful for
analyzing gene expression in human bone marrow -
XX
Example 4; SEQ ID NO: 13187; 658pp + Sequence Listing; English.
XX
The present invention provides a number of single exon nucleic acid
probes which are derived from genomic sequences expressed in the human
bone marrow. They can be used to measure gene expression in bone marrow
samples, which may enable the improved diagnosis and treatment of cancers
such as lymphoma, leukaemia and myeloma. The present sequence is one of
the probes of the invention.
XX
SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
Query Match 20.0%; Score 270.6; DB 22; Length 668;
Best Local Similarity 65.1%; Pred. No. 1.5e-72;
Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;
QY 618 ATTTTCCCTGGTATCTGTCACTATGGGCGCCACCTTTTGCATATATGTTGGCTATCCAGAT 677
Db 2 ATTTTCCCTGGTATCTGTCACTATGGGCGCCACCTTTTGCATATATGTTGGCTATCCAGAT 61
QY 678 CAAGTACGATGACTACAGATTTGGCTTGGGCGCCACCTAGAGTCTCTGTCATCACCATCTG 737
Db 62 CAGCAATGATGATACCTACCACTACCGCGCGATAGAAATCTTCTGTGTCGTATG 121
QY 738 GCGGACATGGAGATCACTTCCGCTCTGATCTGCTGCTCTTCTGAGCCTTTGAA 797
Db 122 GCGTATTTTGGAGGTATCTCACTGATGAGTCTGCGCATTTTTCATTTGCATCTCTGAA 181
QY 798 ATTTAGGCTGTGCCCTTCTAGTGTCTCAACTTCTGATCATCTCTTTGAGCCCTGGAT 857
Db 182 ACTGAGAGCCCTACCGGTTTGTATCATATATATTTGTATCTGTTGGCACCCTGGCT 241
QY 858 TAAGTCTTGGAGAGTGGTGGCCGAGATGCCAATAACATTTGAGAAAAAATCTTCAGCCGGT 917

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Db 242 GGAGTTTTGGAAAAGTGGAGCTCATCTTCTGGCAAAAGAAAATAATTCCAATATGTT 301
QY 918 CGGCACCTCTGGTGGTCTGATTTTCACTGACCATCTCTATGCTGCATCACTCTCTTG 977
Db 302 GGGTACAGTACTGATGCTTTTCTTCACTGATGATGCTATATGCTGCATCACTCTCTCTG 361
QY 978 CTGGTCAGCTTTTGCAGTTGAGGTTGGCAGACAGAGATCTCGTCGACAAAGGCGAGAACTG 1037
Db 362 CTGGTCAGCAGTGAAGTGCAGTTCTGATGACAAATAATTTGACGGGAGACAGAGGTTG 421
QY 1038 GGGACATATGGCCCTGCACTATATGTTGAGGTTGGTAGAATGTGATCATCGTCTTGT 1097
Db 422 GGGCCATAGATCTTACACTACAGCTTTTTCAGTTTATAGAAAATGTGATAATGATTTGTT 481
QY 1098 TTTTAAAGTTCTTTGAGTGAAGTGTACTGAAATGTTACTGTTCTTCAATTTGCCCTTGA 1157
Db 482 ATTTAGGTTCTTTGGAGGGAAGAACTTTGCTGAATTTGTTGACTCATTAATTTGCCGTGA 541
QY 1158 GCTCATTTTGTCTATCTGATTTCCATTTGACATTTCACTGCTCTTTTCTTCCAGTACTTGA 1217
Db 542 GCTCATCATAGCTACTTATTTGGCCACTGGCTTTATGCTCTTCTTCTATCATGATTTTGA 601
QY 1218 TCCATTGGCTCA 1230
Db 602 CCCATGGCAGTCA 614
RESULT 10
AAK19430
ID AAK19430 standard; DNA; 668 BP.
XX
AC AAK19430;
DT 12-OCT-2001 (first entry)
XX
DE Probe #9363 for gene expression analysis in human cervical cell sample.
XX
KW Probe; human; microarray; gene expression; cervical epithelial cell;
KW cervical cancer; ss.
XX
OS Homo sapiens.
XX
PN WO200157278-A2.
XX
PD 09-AUG-2001.
XX
PF 30-JAN-2001; 2001WO-US00670.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0608408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
WPI; 2001-488901/53.
XX
Human genome-derived single exon nucleic acid probes useful for
analyzing gene expression in human cervical epithelial cells -
XX
Claim 25; SEQ ID NO 9363; 487pp; English.
XX
The present invention relates to human single exon nucleic acid probes
(SENP). The present sequence is one such probe. The SENPs are derived
from human HeLa cells. The SENPs can be used to produce a single exon
microarray, which can be used for measuring human gene expression in a
sample derived from human cervical epithelial cells. By measuring gene

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CC expression, the probes are therefore useful in grading and/or staging
 CC of diseases of the cervix, notably cervical cancer.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequences.

XX SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
 Query Match 20.0%; Score 270.6; DB 22; Length 668;
 Best Local Similarity 65.1%; Pred. No. 1.5e-72;
 Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;
 QY 618 ATTTCCCTGGTATCTGTCACTATGGGCGCCACCTTTGCAATATGTTGGCTATCCAGAT 677
 Db 2 ATTTCCCTGGTATCTGTCACTATGGGCGCCATTCGCTGCAATATGTTGGCTATCCAGAT 61
 QY 678 CAAGTACGATGACTACAGATTCGCTTGGGCGCCACTAGAGTCTCTGATCACTCATCTG 737
 Db 62 CAGCAATGATGATACCACTTAAGCTACCGCGGATAGAAATTCCTGTGTGATGATG 121
 QY 738 GCGGACATTTGGAGATCACTTCCCGCTCCCTGATTCGTGCTCTCTCAGCCACTTTGAA 797
 Db 122 GCCTTTTGGAGGATTCATCTCAGTGTAGTACTCTGGCATTTTTCATTCGATCTCGAA 181
 QY 798 ATTTGAAGGCTGTCCCTTCTAGTGTCTCACTTCTGATCATCTCTTGAAGCCCTGGAT 857
 Db 182 ACTGAAGAGCCTACCGCTTTTGTAAATCATATATTTTGTATCATTTGTCGCGGCT 241
 QY 858 TAAGTCTTGAGAGAGTGTGCGGAGATGCCCAATACATTTGAGAAACTTTCAGCCGGT 917
 Db 242 GGAGTTTGGAAAAGTGGAGCTCATCTTCTGGCAACAAAGAAATAATTTCCAATATG 301
 QY 918 CGGCACATCTGGTGTCTGATTTTCACTGATTCCTGATCTCTCTGATCTCTCTGAT 977
 Db 302 GGGTACAGTACTGATGCTTTTCTGATCACACTGCTATATGCTGCCATCACTCTCTG 361
 QY 978 CTGGTACAGCTTTGCGATTTGAGGTTGCGAGACAGAGATCTCTCGACAAAGGCGAAG 1037
 Db 362 CTGGTACAGCTGAAACTGCGAGTTGTGAGATGACAAATAATTTGACGCGGAGACAG 421
 QY 1038 GGGACATATGGGCTGCACTATAGTGTGAGGTTGGTAGAGATGATGATCTGCTTGGT 1097
 Db 422 GGGCCATAGAAATCCACACTACAGCTTTTTCAGTTTATAGAAAATGTGATATATGAT 481
 QY 1098 TTTTAAGTCTTTTGGAGTGAAGTGTGATGAAATTTACTGCAATTCCTTGTGATCTTGA 1157
 Db 482 ATTTAGGTTCTTTGGAGGAAACTTTTCTGTAATTTGTGACTCATTAATTTCCGCTGA 541
 QY 1158 GCTCATTTATGCTTATCTGATTTTCCATTTGACTTTCATGCTCTCTCTCTCTCTCT 1217
 Db 542 GCTCATATAAGCTACCTATTGGCCACTGGCTTTATGCTCTCTCTCTCTCTCTCT 601
 QY 1218 TCGATTGGCTCA 1230
 Db 602 CCCATGGCAGTCA 614

RESULT 11

AA144621
 ID AA144621 standard; DNA; 668 BP.

XX AC
 XX AC
 XX AC
 XX AC

DT 17-OCT-2001 (first entry)

XX Probe #13307 used to measure gene expression in human placenta sample.

DB Probe; microarray; human; placenta; antenatal diagnosis;

XX Probe; microarray; human; placenta; antenatal diagnosis;

XX genetic disorder; ss.

XX Homo sapiens.

OS Homo sapiens.

XX Homo sapiens.

PN W0200157272-A2.

XX 09-AUG-2001.
 PD 30-JAN-2001; 2001WO-US00663.
 PF 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX (MOLE-) MOLECULAR DYNAMICS INC.
 XX Penn SG, Hanzel DK, Chen W, Rank DR;
 PI WPI; 2001-488897/53.
 DR Human genome-derived single exon nucleic acid probes useful for
 PT analyzing gene expression in human placenta -
 PT Claim 25; SEQ ID No 13307; 654pp; English.
 PS The present invention relates to single exon nucleic acid probes (SNP).
 CC The present sequence is one such probe. The probes are useful for
 CC producing a microarray for predicting, measuring and displaying gene
 CC expression in samples derived from human placenta. The probes are useful
 CC for antenatal diagnosis of human genetic disorders.
 XX SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;
 Query Match 20.0%; Score 270.6; DB 22; Length 668;
 Best Local Similarity 65.1%; Pred. No. 1.5e-72;
 Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;
 QY 618 ATTTCCCTGGTATCTGTCACTATGGGCGCCACCTTTGCAATATGTTGGCTATCCAGAT 677
 Db 2 ATTTCCCTGGTATCTGTCACTATGGGCGCCATTCGCTGCAATATGTTGGCTATCCAGAT 61
 QY 678 CAAGTACGATGACTACAGATTCGCTTGGGCGCCACTAGAGTCTCTGATCACTCATCTG 737
 Db 62 CAGCAATGATGATACCACTTAAGCTACCGCGGATAGAAATTCCTGTGTGATGATG 121
 QY 738 GCGGACATTTGGAGATCACTTCCCGCTCCCTGATTCGTGCTCTCTCAGCCACTTTGAA 797
 Db 122 GCCTTTTGGAGGATTCATCTCAGTGTAGTACTCTGGCATTTTTCATTCGATCTCGAA 181
 QY 798 ATTTGAAGGCTGTCCCTTCTAGTGTCTCACTTCTGATCATCTCTTGAAGCCCTGGAT 857
 Db 182 ACTGAAGAGCCTACCGCTTTTGTAAATCATATATTTTGTATCATTTGTCGCGGCT 241
 QY 858 TAAGTCTTGAGAGAGTGTGCGGAGATGCCCAATACATTTGAGAAACTTTCAGCCGGT 917
 Db 242 GGAGTTTGGAAAAGTGGAGCTCATCTTCTGGCAACAAAGAAATAATTTCCAATATG 301
 QY 918 CGGCACATCTGGTGTCTGATTTTCACTGATTCCTGATCTCTCTGATCTCTCTGAT 977
 Db 302 GGGTACAGTACTGATGCTTTTCTGATCACACTGCTATATGCTGCCATCACTCTCTG 361
 QY 978 CTGGTACAGCTTTGCGATTTGAGGTTGCGAGACAGAGATCTCTCGACAAAGGCGAAG 1037
 Db 362 CTGGTACAGCTGAAACTGCGAGTTGTGAGATGACAAATAATTTGACGCGGAGACAG 421
 QY 1038 GGGACATATGGGCTGCACTATAGTGTGAGGTTGGTAGAGATGATGATCTGCTTGGT 1097
 Db 422 GGGCCATAGAAATCCACACTACAGCTTTTTCAGTTTATAGAAAATGTGATATATGAT 481
 QY 1098 TTTTAAGTCTTTTGGAGTGAAGTGTGATGAAATTTACTGCAATTCCTTGTGATCTTGA 1157
 Db 482 ATTTAGGTTCTTTGGAGGAAACTTTTCTGTAATTTGTGACTCATTAATTTCCGCTGA 541
 QY 1158 GCTCATTTATGCTTATCTGATTTTCCATTTGACTTTCATGCTCTCTCTCTCTCTCT 1217

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Db 542 GCTCATCAAGTACCTATTGGCCACTGGCTTTATGCTCTCTCTATCAGTATTGTA 601
Oy 1218 TCCATTGGGCTCA 1230
Db 602 CCCATGGCAGTCA 614

RESULT 12
AAI05155
ID AAI05155 standard; DNA; 668 BP.
XX
AC AAI05155;
XX
DT 09-OCT-2001 (first entry)
XX
DE Probe #5146 used to measure gene expression in human breast sample.
XX
KW Probe; human; breast disease; breast cancer; development disorder; ss;
KW inflammatory disease; proliferative breast disease; non-carcinoma tumour.
XX
OS Homo sapiens.
XX
PN WO200157270-A2.
XX
PD 09-AUG-2001.
XX
PF 29-JAN-2001; 2001WO-US00661.
XX
PR 04-FEB-2000; 2000US-0180312.
PR 26-MAY-2000; 2000US-0207456.
PR 30-JUN-2000; 2000US-0609408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-0234687.
PR 27-SEP-2000; 2000US-0236359.
PR 04-OCT-2000; 2000GB-0024263.
XX
PA (MOLE-) MOLECULAR DYNAMICS INC.
XX
PI Penn SG, Hanzel DK, Chen W, Rank DR;
XX
DR WPI; 2001-476286/51.
XX
PT Novel single exon nucleic acid probe used to measuring gene expression
PT in a human breast -
XX
PS Claim 25; SEQ ID No 5146; 322bp; English.
XX
CC The present invention relates to novel single exon nucleic acid probes.
CC The present sequence is one such probe. The probes are useful for
CC measuring human gene expression in a human breast sample, where the probe
CC hybridises at high stringency to a nucleic acid expressed in the human
CC breast. The probes are useful for predicting, diagnosing, grading,
CC staging, monitoring and prognosing diseases of the human breast,
CC particularly those diseases with polygenic aetiology. The diseases
CC include: breast cancer, disorders of development, inflammatory diseases
CC of the breast, fibrocystic changes, proliferative breast disease and
CC non-carcinoma tumours.
CC Note: the sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

Query Match 20.0%; Score 270.6; DB 22; Length 668;
Best Local Similarity 65.1%; Pred. NO. 1.5e-72;
Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;

Oy 618 ATTTTCCCTGGTATCTGTCACCTATGGGCGCACCCCTTGGCAATATGTTGGCTATCCAGAT 677
Db 2 ATTTTCCCTGGTATCTGTCACCTATGGGCGCACCCCTTGGCAATATGTCATGTCATCCAGAT 61
Oy 678 CAAGTACGATGACTACAAGATTGCGCTTGGGCGCACTAGAGTCTCTGTCATCACCATCTG 737
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Db 62 CAGCAATGATGATACCTACCAATTAAGCTACCGCCGATAGAATTCCTCTGTGCTGATGTG 121
Oy 738 GGGACATTTGGAGATCACTTCCGGCTCTCTGATCTGCTGATCTGCTCTCTCTCAGCCACTTTGAA 797
Db 122 GCGTTTTTTGGAGGTTATCTCACGTGTAGTGACTCTGGCAATTTTTTCATTTGCATCTCTGAA 181
Oy 798 ATTGAAGGCTGTGCGCTTCTCTAGTGCTCAACTTCTCTGATCATCTCTTTGAGCCCTGGAT 857
Db 182 ACTGAAGAGCCTACCGGTTTGTGTAATCATATATTTGTATCATTTGTCGACCGTGGCT 241
Oy 858 TAAGTTCTGGAGAAGTGGTGCCAGATGCCCAATTAACATTGAGAAAAAATTTCAGCCGGGT 917
Db 242 CGAGTTTTTGGAAAAGTGGAGCTCATCTTCTGGCAACAAAGAAAAATAATTCCAATATGTT 301
Oy 918 CGGCACTCTGGTGCTGATTTTCACTGACCATCTCTCTATGCTGGCATCAACTTCTCTTG 977
Db 302 GGGTACAGTACTGATGCTTTTCTTGATCACACTGCTATATGCTGTCATCAACTTCTCTTG 361
Oy 978 CTGGTCAGCTTTGGCAGTTGAGGTTGGCAGACAGAGATCTCGTCGACAAAGGGCAGAACTG 1037
Db 362 CTGGTCAGCAGTGAACGTCAGTTGTGATGACAAATAATTGACGGGAGACAGAGGTG 421
Oy 1038 GGGACATATGGCCCTGCACTATAGTGTGAGGTTGGTGGAGAGATGTGATCATGCTTTGGT 1097
Db 422 GGGCCATAGATCTACACTACAGCTTTTCAGTTTTTTAGAAAAATGTGATAATGATATGTT 481
Oy 1098 TTTTAAGTCTTTGGAGTGAAAGTGTACTGATCTGATCTCTCTCTCTGATGCTCTGCA 1157
Db 482 ATTTAGGTTCTTTGGAGGGAACCTTTTGTGCTGAAATTTGTGACTCATTAATTTGCGGTGCA 541
Oy 1158 GGTCAATTATGCTTATCTGATTTCCATTGCACTTTCATGCTCTCTCTCTCTCCAGTACTGCA 1217
Db 542 GGTCAATCAAGTACCTATTTGGCCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 601
Oy 1218 TCCATTGGGCTCA 1230
Db 602 CCCATGGCAGTCA 614

RESULT 13
ABS12699
ID ABS12699 standard; DNA; 668 BP.
XX
AC ABS12699;
XX
DT 19-AUG-2002 (first entry)
XX
DE Human genome-derived single exon probe ORF from lung SEQ ID No 12690.
KW Human; ds; single exon probe; asthma; lung cancer; COPD; ILD;
KW chronic obstructive pulmonary disease; interstitial lung disease;
KW familial idiopathic pulmonary fibrosis; neurofibromatosis;
KW tuberous sclerosis; Gaucher's disease; Niemann-Pick disease;
KW Hermansky-Pudlak syndrome; sarcoidosis; pulmonary haemorrhage;
KW pulmonary histiocytosis; lymphangioleiomyomatosis; Karagener syndrome;
KW pulmonary alveolar proteinosis; fibrocystic pulmonary dysplasia;
KW primary ciliary dyskinesia; pulmonary hypertension;
KW hyaline membrane disease; open reading frame; ORF.
XX
OS Homo sapiens.
XX
PN WO200186003-A2.
XX
PD 15-NOV-2001.
XX
PF 30-JAN-2001; 2001WO-US00665.
XX
PR 04-FEB-2000; 2000US-180312P.
PR 26-MAY-2000; 2000US-207456P.
PR 30-JUN-2000; 2000US-0609408.
PR 03-AUG-2000; 2000US-0632366.
PR 21-SEP-2000; 2000US-234687P.
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PR 27-SEP-2000; 2000US-236359P.
PR 04-OCT-2000; 2000GB-0024263.

PA (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2002-114183/15.

XX Spatially-addressable set of single exon nucleic acid probes, used to
XX measure gene expression in human lung samples -

PS Claim 4; SEQ ID NO 12690; 634pp; English.

XX The invention relates to a spatially-addressable set of single exon
XX nucleic acid probes for measuring gene expression in a sample derived
XX from human lung comprising single exon nucleic acid probes having one of
XX 12614 nucleic acid sequences mentioned in the specification, or their
XX complements or the 12387 open reading frames derived from the 12614
XX probes. Also included are a microarray comprising the novel set of
XX probes; the novel set of probes which hybridize at high stringency to a
XX nucleic acid expressed in the human lung; measuring gene expression in a
XX sample derived from human lung, comprising (a) contacting the array with
XX a collection of detectably labeled nucleic acids derived from human lung
XX mRNA, and (b) measuring the label detectably bound to each probe of
XX the array; identifying exons in a eukaryotic genome, comprising
XX (a) algorithmically predicting at least one exon from genomic sequences
XX of the eukaryote; and (b) detecting specific hybridization of detectably
XX labeled nucleic acids from eukaryote lung mRNA, to a single exon probe,
XX having a fragment identical to the predicted exon, the probe is included
XX in the above mentioned microarray; assigning exons to a single gene,
XX comprising (a) identifying exons from genomic sequence by the method
XX above and (b) measuring the expression of each of the exons in several
XX tissues and/or cell types using hybridization to a single exon
XX microarrays having a probe with the exon, where a common pattern of
XX expression of the exons in the tissues and/or cell types indicates that
XX the exons should be assigned to a single gene; a peptide comprising one
XX of 12011 sequences, mentioned in the specification, or encoded by the
XX probes/open reading frames (ORF). The probes are used for gene
XX expression analysis, and for identifying exons in a gene, particularly
XX using human lung derived mRNA and for the study of lung diseases
XX such as asthma, lung cancer, chronic obstructive pulmonary disease
XX (COPD), interstitial lung disease (ILD), familial idiopathic pulmonary
XX fibrosis, neurofibromatosis, tuberous sclerosis, Gaucher's disease,
XX Niemann-Pick disease, Hermansky-Pudlak syndrome, sarcoidosis, pulmonary
XX haemosiderosis, pulmonary histiocytosis, lymphangioleiomyomatosis,
XX pulmonary alveolar proteinosis, Karagener syndrome, fibrocystic
XX pulmonary dysplasia, primary ciliary dyskinesia, pulmonary hypertension
XX and hyaline membrane disease. The present sequence is a single exon
XX probe open reading frame of the invention.

XX Note: The sequence data for this patent did not form part

XX of the printed specification, but was obtained in electronic

XX format directly from WIPO at

XX ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 668 BP; 171 A; 136 C; 146 G; 215 T; 0 other;

XX Query Match 20.0%; Score 270.6; DB 24; Length 668;

XX Best Local Similarity 65.1%; Pred. No. 1.5e-72;

XX Matches 399; Conservative 0; Mismatches 214; Indels 0; Gaps 0;

QY 618 ATTTTCCCTGGTATCTGTCACTATGGGCGCACCCCTTTGCAATATGTTGGCTATCCAGAT 677

DB 2 ATTTTCCCTGGTATCTGTCACTATGGGCGCACCTTGTGCAATATGTTGGCTATCCAGAT 61

QY 678 CAAGTAGAGTACAGATTGCTTGGGCGCACCTAGAGTCTCTGCACTACCACTG 737

DB 62 CAGCAATGATGATACCTACCACTAGAGTCTCTGCACTACCACTG 121

QY 738 GCGGACATGGAGATCACTTCCCGCTTCTGATTTGGTCTTCTCAGCCACTTTGAA 797

DB 122 GCGTTTTTGGAGGTTATCTCAGCTGATGACTCTGGCATTTTTCATTCATCTCTGAA 181

QY 798 ATTGAAGGCTGTGCTTCCCTAGTGTCAACTTCTGTATCATCTCTTTTGAGCCCTGAT 857
DB 182 ACTGAAGAGAGCTACCCGTTTGTGTTAAATCATATATTTTGTATCATTTGTTGGCACCCTGGCT 241
QY 858 TAAGTTCTGGAGAGTGTGCTCCAGATGCCCAATAACATTGAGAAAACCTTCAGCCGGGT 917
DB 242 GAGTTTTTGGAAAAGTGGAGCTCATCTTCTGGCAACAAGAAAATAAATCCAAATATGGT 301
QY 918 CGGCACCTCTGCTGTGCTCTGATTTTCAGTCACTCATCTCTATGCTGGCATCAACTTCTCTTG 977
DB 302 GGTACAGTACTGATGCTTTTCTGATCAGACTGCTATATGCTGCCATCAACTTCTCTTG 361
QY 978 CTGTCAGCTTTTGCAGTTGAGTTGGGAGAGAGAGATCTCTGCGACAAAGGCGAGAACTG 1037
DB 362 CTGGTCAGCAGTGAACCTGCAGTTGTGATGACAAAATAATTTGACGGGAGACAGAGGTG 421
QY 1038 GGGACATATGGGCTGCACTATAGTGTGAGCTTGGTAGAGATGTGATCATGCTTGGT 1097
DB 422 GGGCCATAGAAATCTTACACTACAGCTTTTCACTTTTGAAGAAATGTGATAATGATTTGGT 481
QY 1098 TTTTAAAGTTCTTGGAGTGAAGTGTACTGAATTTACTGTCTTCTTCTGATTCCTTGA 1157
DB 482 ATTTAGTCTTCTTGGAGGGAACCTTCTGCTGATTTGTTGCTCATTAATTTGCCGTGCA 541
QY 1158 GCTCATATGCTTATCTGATTTTCAATGACTTCAATGCTCTTCTTCTTCCAGTACTTGA 1217
DB 542 GCTCATATAAGTACCTATTGGGCACTGGCTTTATGCTCTTCTTCTTCTATCAGTATTTGTA 601
QY 1218 TCCATTGGCTCA 1230
DB 602 CCCATGGCAGTCA 614

RESULT 14

ABAS1767

ID ABAS1767 standard; DNA; 471 BP.

XX AC ABA51767;

XX DT 01-FEB-2002 (first entry)

XX Human foetal liver single exon nucleic acid probe #72.

XX Human; foetal liver; gene expression; single exon nucleic acid probe; ss.

XX Homo sapiens.

XX WO200157277-A2.

XX 09-AUG-2001.

XX 30-JAN-2001; 2001WO-US00669.

XX 04-FEB-2000; 2000US-0180312.

XX 26-MAY-2000; 2000US-0207456.

XX 30-JUN-2000; 2000US-0608408.

XX 03-AUG-2000; 2000US-0632366.

XX 21-SEP-2000; 2000US-0234687.

XX 27-SEP-2000; 2000US-0236359.

XX 04-OCT-2000; 2000GB-0024263.

XX (MOLE-) MOLECULAR DYNAMICS INC.

XX Penn SG, Hanzel DK, Chen W, Rank DR;

XX WPI; 2001-483447/52.

XX Human genome-derived single exon nucleic acid probes useful for

XX analyzing gene expression in human fetal liver -

XX Claim 1; SEQ ID NO 72; 639pp + sequence listing; English.

XX The invention relates to a single exon nucleic acid probe for

measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human foetal liver. The present sequence is a single exon nucleic acid probe of the invention.

Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 471 BP: 117 A; 94 C; 104 G; 156 T; 0 other:

```
Query Match      13.1%; Score 176.8; DB 22; Length 471;
Best Local Similarity 61.9%; Pred. NO. 9.4e-44;
Matches 280; Conservative 0; Mismatches 172; Indels 0; Gaps 0;
```

Qy	601	AGAGTTGTGCTAATAGGTATTTTCCCTGGGTATCTGTCACTATATGGGGCCACACCTTTGGCAAT	660
Db	19	ATAGCAATTGCTGATGACATTTTCCCTGTTATCAATTACTTATGGGGCCATTGCTGGCAAT	78
Qy	661	ATGTTGGCTATCCAGATCAAGTAGACTACAAAGATTCCGCTTGGGGCCACTAGAATC	720
Db	79	ATACTGGCCATCCAGATCAGCAATGATGATATCACCAITTAAGCTACCGCCGATGAATTC	138
Qy	721	CTCTGCATCAACATCTGGCGGACATTTGGAGATCACTTCCCGGCTCCTGATTTCTGGTGTGC	780
Db	139	TTCTGTGTGCTGATGTGGCGTTTTTTGGAGGTTATCTCAAGTGTAGTGACTCTGGCAATT	198
Qy	781	TTCTCAGCGCACTTGGAAATTGAAGGCTGTGCCCTTCTTAGTGTCAACTTCTCTGATCATC	840
Db	199	TTCAATTGCATCTCTGAAACTGGAAGAGCTTACCCGGTTTGTTAATCATATATTTTGTATCA	258
Qy	841	CTCTTTGAGCGCTGGATTAAGTTTCTGGAGAAAGTGGTGGCCAGATGCCCAATAACCAATTGAG	900
Db	259	TTGTTGGCACGGTGGCTGGAGTTTGGAAAGTGGAGCTCATCTTCTGGCGCAACAAGNA	318
Qy	901	AAAAAATTTCAGCGGGTGGCACTCTGGTGGTCTCTGATTTTCAGTCAACATCTCTATGCT	960
Db	319	AATAAATTTCCAATATGGTGGGTACAGTACTGATGCTTTTCTTGTATCACACTGTCTATGCT	378
Qy	961	GGCATCAACTTCTCTTCTGCTCAGCTTTTGCAGTGTGAGGTTTGGCAGACAGAGATCTCGTC	1020
Db	379	GCCATCAACTTCTCTCTGCTGCTCAGCAGTGAACACTGCAGTTGTGAGTGCAGAAATATTT	438
Qy	1021	GACAAAGGGCAGAACTCGGGACATATGGGCCT	1052
Db	439	GACGGGAGACAGAGGTTGGGGCCATAGAATCCT	470

RESULT 15

ABA21596

ID ABA21596 standard; DNA; 471 BP.

AC ABA21596;

DT 23-JAN-2002 (first entry)

DE Probe #62 for gene expression analysis in human heart cell sample.

Human; gene expression; heart; microarray; vascular system; probe;
KW
KW
KW
KW
Human; gene expression; heart; microarray; vascular system; probe;
cardiovascular disease; hypertension; cardiac arrhythmia;
congenital heart disease; ss.

OS Homo sapiens.

PN WO200157274-A2.

PD 09-AUG-2001.

AA
PF
30-JAN-2001; 2001WO-US00666.

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

03-AUG-2000; 2000US-0632366.
21-SEP-2000; 2000US-0234687.
27-SEP-2000; 2000US-0236359.
04-OCT-2000; 2000GB-0024263.
(MOLE-) MOLECULAR DYNAMICS INC.
Penn SG, Hanzel DK, Chen W, Rank DR;
WPI; 2001-488899/53.
Single exon nucleic acid probes for analyzing gene expression in human hearts -
Claim 1; SEQ ID No 62; 530pp; English.
The present invention relates to single exon nucleic acid probes for measuring human gene expression in a sample derived from human heart. The present sequence is one such probe. The probes may be used for predicting, measuring and displaying gene expression in samples derived from the human heart via microarrays. By measuring gene expression, the probes are useful for predicting, diagnosing, grading, staging, monitoring and prognosing diseases of the human heart and vascular system e.g. cardiovascular disease, hypertension, cardiac arrhythmias and congenital heart disease.
Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
Sequence 471 BP; 117 A; 94 C; 104 G; 156 T; 0 other;

Query Match	13.1%	Score 176.8	DB 22	Length 471
Best Local Similarity	61.9%	Pred. No. 9.4e-44		
Matches 280; Conservative		0; Mismatches 172;	Indels 0;	Gaps 0;

Qy	601	AGAGTTGTCTAATGGTATTTTCCCTGGTATCTGTCACTATAGGGGCACCCCTTTGCAAT	660
Db	19	ATAGCAATGCTGATGACATTTTCCCTGTTATCAGTTACTTATGGGGCATTTCGCTGCAAT	78
Qy	661	ATGTTGGCTATCCAGATCAAGTAGAGTACATCAAGATTCGCCCTTGGGCCACTAGAAATC	720
Db	79	ATATCGGCATCCAGATCAGCATGATGATCTACCATTAAGCTACCGCCGATAGAATTC	138
Qy	721	CTCTGCATCACCATCTCGCGSACATTGGAGATCACTTCCCGCCCTCCTGATTTCTGGTGCTC	780
Db	139	TTCTGTGTGGTGAATGGCGTTTTTTCGGAGTTATCTCAGGTGATGACTCTCGSCATTT	198
Qy	781	TTCTCAGCCACTTTGAANAATGGAAGCTGTGCCCTTCTAGTGTCTCACTTCTCTGATCATC	840
Db	199	TTCAATGCATCTCTGNAACGTGAAGAGCCTACCCGTTTGTTAATCATATATTTTGTATCA	258
Qy	841	CTCTTTGAGCCCTGGATTAAGTTCTCGAGAGAAGTGGTGCACAGATGCCCAATAACATTTGAG	900
Db	259	TTGTTGGCACCGTGGCTGGAGTTTGGAAAAGTGGAGCTCATCTTCTTGGCAACAAGAA	318
Qy	901	AAAACTTTCAGCCGGGTGCGGACATCTCGGTGGTCTGATTTTCAGTGCACCACTCTATGCT	960
Db	319	AATAAATCCCAATATGGTGGGTACAGTACTGATGCTTTTCTTGATCACACTGCTATATGCT	378
Qy	961	GGCATCAACTTCTCTGCTGTCACTTTGAGTTCAGTTGGCAGACAGAGATCTCGTC	1020
Db	379	GCCATCAACTTCTCTGCTGGTCAAGAGTGAACCTGCAGTTGTGCAGATGACAAATAATT	438
Qy	1021	GACAAAGGGCAGAACTGGGGACATATGGGGCT	1052
Db	439	GACGGGAGACAGAGTGGGGCCATAGAAATCT	470

Search completed: March 30, 2003, 03:16:38
Job time : 245.597 secs